

```

chain nodes :
  8  9 10 15
ring nodes :
  1  2  3  4  5  6
chain bonds :
  3-8  5-15
ring bonds :
  1-2  1-6  2-3  3-4  4-5  5-6
exact/norm bonds :
  1-2  1-6  2-3  3-4  3-8  4-5  5-6  5-15
isolated ring systems :
  containing 1 :
  
```

G1:O,S

G2:H,CH3

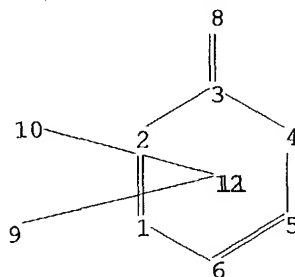
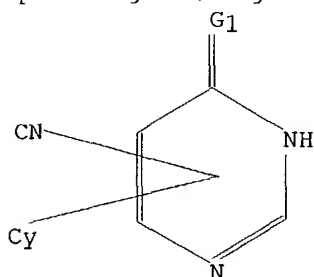
Match level :

```

1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  8:CLASS  9:Atom 10:CLASS
11:CLASS 12:CLASS 15:CLASS
  
```

=>

Uploading C:\Program Files\Stnexp\Queries\10799507.str



chain nodes :

8 9 10

ring nodes :

1 2 3 4 5 6

chain bonds :

3-8

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 3-8 4-5 5-6

isolated ring systems :

containing 1 :

G1:O,S

Match level :

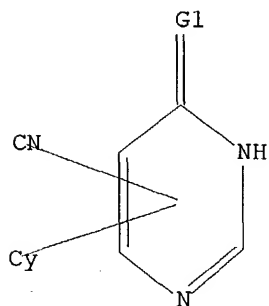
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:Atom 10:CLASS 11:CLASS
12:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

10/799,507

=> s l1 sss sam

SAMPLE SEARCH INITIATED 19:05:54 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1471 TO ITERATE

68.0% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

30 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

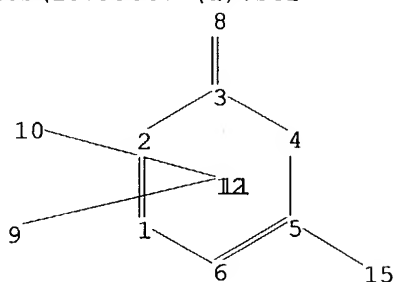
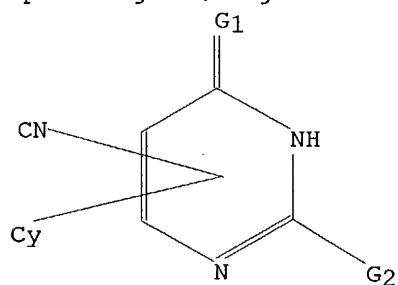
PROJECTED ITERATIONS: 27120 TO 31720

PROJECTED ANSWERS: 484 TO 1280

L2 30 SEA SSS SAM L1

=> =>

Uploading C:\Program Files\Stnexp\Queries\10799507 (a).str



chain nodes :

8 9 10 15

ring nodes :

1 2 3 4 5 6

chain bonds :

3-8 5-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

1-2 1-6 2-3 3-4 3-8 4-5 5-6 5-15

isolated ring systems :

containing 1 :

G1:O,S

G2:H,CH3

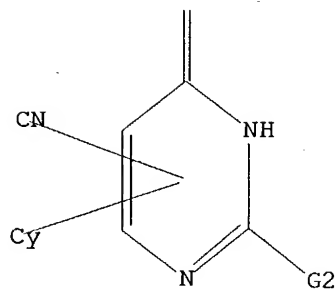
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:Atom 10:CLASS 11:CLASS
12:CLASS 15:CLASS

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS
L3 STR



G1 O,S
G2 H,Me

Structure attributes must be viewed using STN Express query preparation.

=> s l3 sss sam
SAMPLE SEARCH INITIATED 19:08:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1471 TO ITERATE

68.0% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

2 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 27120 TO 31720
PROJECTED ANSWERS: 2 TO 160

L4 2 SEA SSS SAM L3

=> s l3 sss ful
FULL SEARCH INITIATED 19:08:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 30608 TO ITERATE

100.0% PROCESSED 30608 ITERATIONS
SEARCH TIME: 00.00.01

85 ANSWERS

L5 85 SEA SSS FUL L3

=> => s l5
L6 19 L5

=> d l6 1-19 bib,ab,hitstr

L6 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:780676 CAPLUS
 TI Preparation of 4-substituted-5-cyano-1H-pyrimidin-6-(thi)ones as glycogen
 synthase kinase-3 (GSK-3) inhibitors.
 IN Moon, Young-Choon
 PA Vertex Pharmaceuticals Incorporated, USA
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

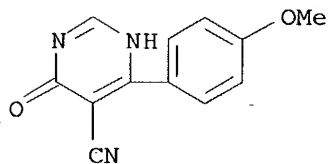
AppL
PCT

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004080977	A1	20040923	WO 2004-US7801	20040312
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004186119	A1	20040923	US 2004-799507	20040312
PRAI	US 2003-454878P	P	20030312		
AB	Title compds. [I; W = O, S; A = 5-6 membered aryl, heteroaryl optionally substituted by halo, cyano, OR1, N(R1)2, NR1NR1CON(R1)2, NR1COR1, COCOR1, COR1, SO2R1, NR1CO2R1, CO2R1, O, S, NR1, etc.; R1 = H, (substituted) alipharyl, aryl, heteroaryl, heterocyclyl], are claimed (no synthetic or biol. data).				
IT	543700-28-3P 760966-32-3P 760966-33-4P 760966-34-5P 760966-35-6P 760966-36-7P 760966-37-8P 760966-38-9P 760966-39-0P 760966-40-3P 760966-41-4P 760966-42-5P 760966-43-6P 760966-44-7P 760966-45-8P 760966-46-9P 760966-47-0P 760966-48-1P 760966-49-2P 760966-50-5P 760966-51-6P 760966-52-7P 760966-53-8P 760966-54-9P 760966-55-0P 760966-56-1P 760966-57-2P 760966-58-3P 760966-59-4P 760966-60-7P 760966-61-8P 760966-62-9P 760966-63-0P 760966-64-1P 760966-65-2P 760966-66-3P 760966-67-4P 760966-68-5P 760966-69-6P 760966-70-9P 760966-71-0P 760966-72-1P 760966-73-2P 760966-74-3P 760966-75-4P 760966-76-5P 760966-77-6P 760966-78-7P 760966-79-8P 760966-80-1P 760966-81-2P 760966-82-3P 760966-83-4P 760966-84-5P 760966-85-6P 760966-86-7P 760966-87-8P 760966-88-9P 760966-89-0P 760966-90-3P 760966-91-4P 760966-92-5P 760966-93-6P 760966-94-7P 760966-95-8P 760966-96-9P 760966-97-0P				
	RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				

(claimed compound; preparation of substituted cyanopyrimidinones as glycogen synthase kinase-3 inhibitors)

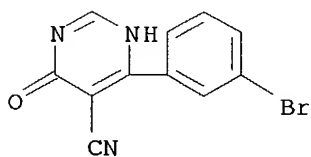
RN 543700-28-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-methoxyphenyl)-4-oxo- (9CI)
(CA INDEX NAME)



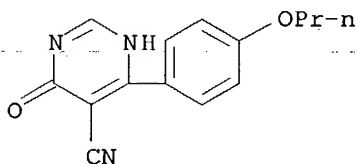
RN 760966-32-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3-bromophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



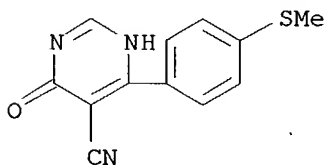
RN 760966-33-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-(4-propoxyphenyl)- (9CI)
(CA INDEX NAME)



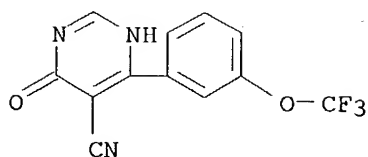
RN 760966-34-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-[4-(methylthio)phenyl]-4-oxo- (9CI) (CA INDEX NAME)

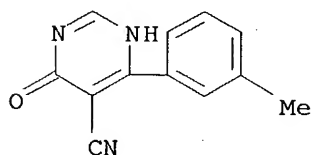


RN 760966-35-6 CAPLUS

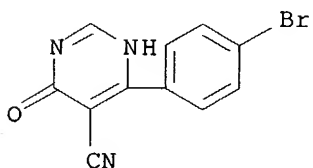
CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)



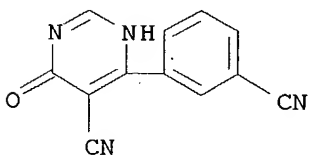
RN 760966-36-7 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(3-methylphenyl)-4-oxo- (9CI) (CA INDEX NAME)



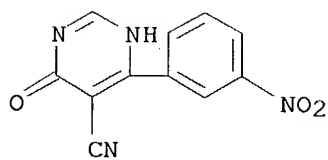
RN 760966-37-8 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 6-(4-bromophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



RN 760966-38-9 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 6-(3-cyanophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)

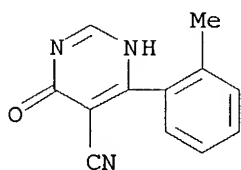


RN 760966-39-0 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(3-nitrophenyl)-4-oxo- (9CI) (CA INDEX NAME)



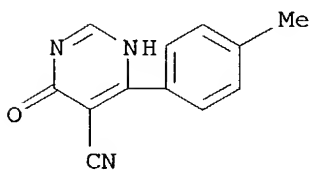
RN 760966-40-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(2-methylphenyl)-4-oxo- (9CI) (CA INDEX NAME)



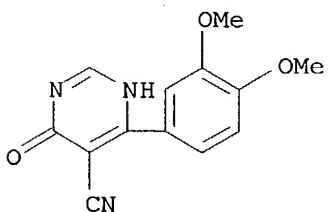
RN 760966-41-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-methylphenyl)-4-oxo- (9CI) (CA INDEX NAME)



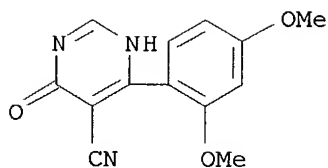
RN 760966-42-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3,4-dimethoxyphenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



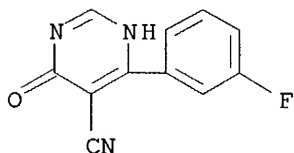
RN 760966-43-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(2,4-dimethoxyphenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



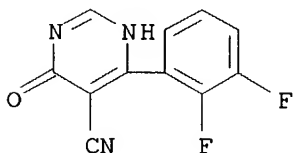
RN 760966-44-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3-fluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



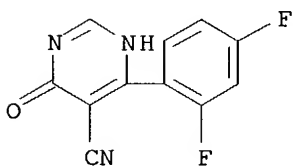
RN 760966-45-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(2,3-difluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



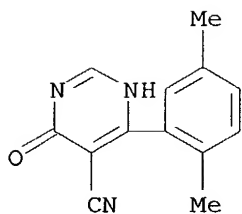
RN 760966-46-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(2,4-difluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



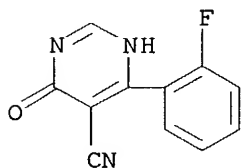
RN 760966-47-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(2,5-dimethylphenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



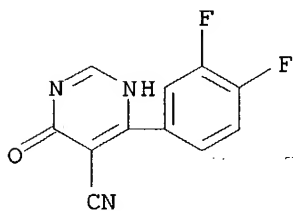
RN 760966-48-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(2-fluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



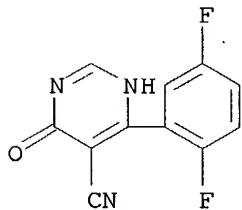
RN 760966-49-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3,4-difluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



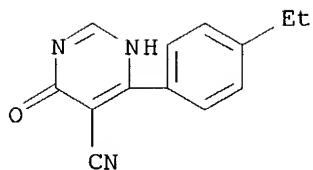
RN 760966-50-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(2,5-difluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



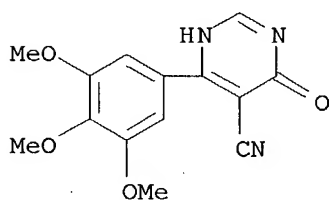
RN 760966-51-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(4-ethylphenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



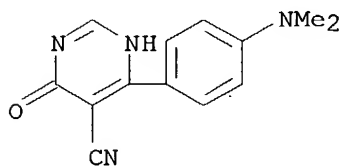
RN 760966-52-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-(3,4,5-trimethoxyphenyl)-
(9CI) (CA INDEX NAME)



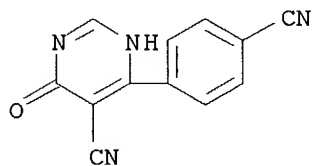
RN 760966-53-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-[4-(dimethylamino)phenyl]-1,4-dihydro-4-oxo-
(9CI) (CA INDEX NAME)



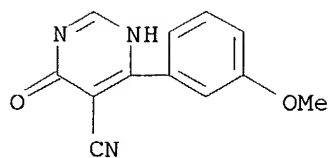
RN 760966-54-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(4-cyanophenyl)-1,4-dihydro-4-oxo- (9CI) (CA
INDEX NAME)



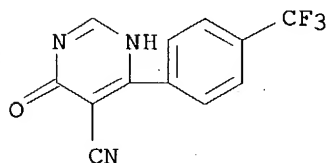
RN 760966-55-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(3-methoxyphenyl)-4-oxo- (9CI)
(CA INDEX NAME)



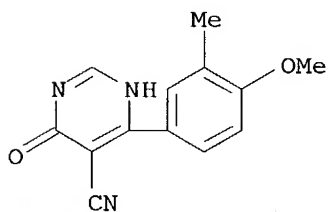
RN 760966-56-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-[4-(trifluoromethyl)phenyl]-
(9CI) (CA INDEX NAME)



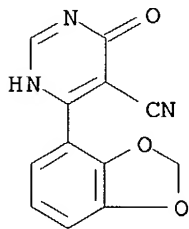
RN 760966-57-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-methoxy-3-methylphenyl)-4-oxo-
(9CI) (CA INDEX NAME)



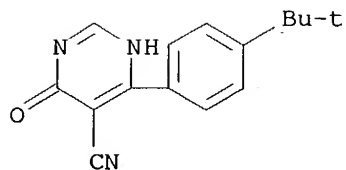
RN 760966-58-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



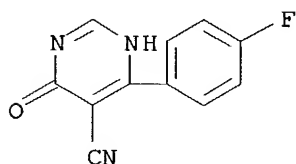
RN 760966-59-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-[4-(1,1-dimethylethyl)phenyl]-1,4-dihydro-4-
oxo- (9CI) (CA INDEX NAME)



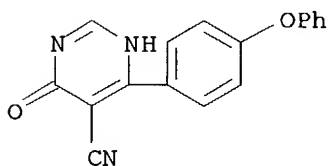
RN 760966-60-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(4-fluorophenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



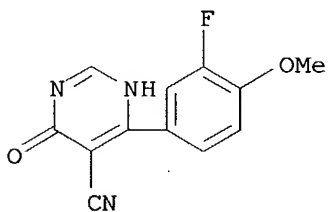
RN 760966-61-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



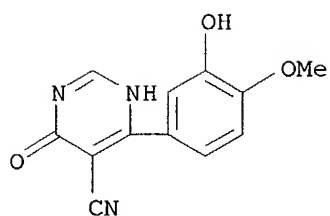
RN 760966-62-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3-fluoro-4-methoxyphenyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



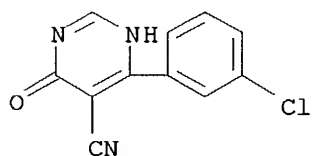
RN 760966-63-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(3-hydroxy-4-methoxyphenyl)-4-oxo- (9CI) (CA INDEX NAME)



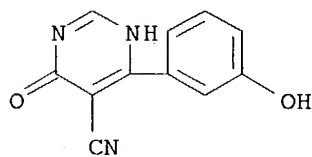
RN 760966-64-1 CAPLUS

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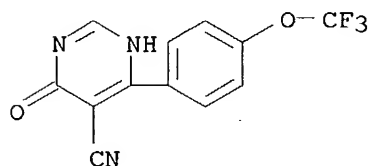
RN 760966-65-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(3-hydroxyphenyl)-4-oxo- (9CI) (CA INDEX NAME)



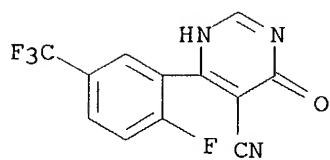
RN 760966-66-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-[4-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

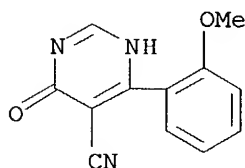


RN 760966-67-4 CAPLUS

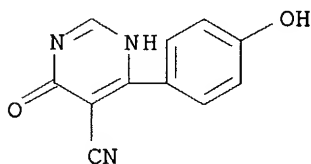
CN 5-Pyrimidinecarbonitrile, 6-[2-fluoro-5-(trifluoromethyl)phenyl]-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



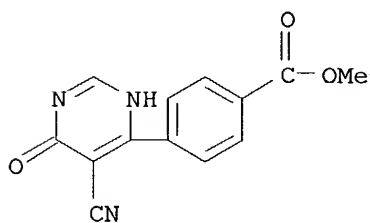
RN 760966-68-5 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(2-methoxyphenyl)-4-oxo- (9CI)
 (CA INDEX NAME)



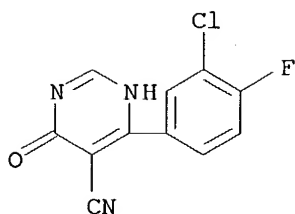
RN 760966-69-6 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-hydroxyphenyl)-4-oxo- (9CI)
 (CA INDEX NAME)



RN 760966-70-9 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

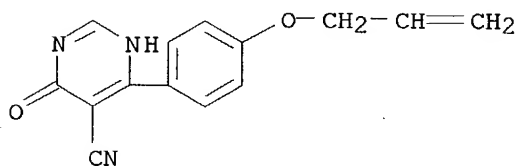


RN 760966-71-0 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 6-(3-chloro-4-fluorophenyl)-1,4-dihydro-4-oxo-
 (9CI) (CA INDEX NAME)



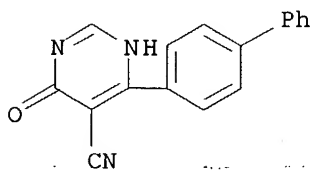
RN 760966-72-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-[4-(2-propenyloxy)phenyl]- (9CI) (CA INDEX NAME)



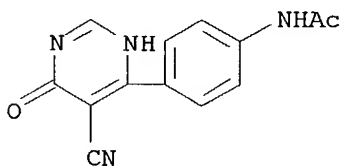
RN 760966-73-2 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-[1,1'-biphenyl]-4-yl-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



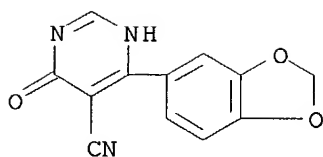
RN 760966-74-3 CAPLUS

CN Acetamide, N-[4-(5-cyano-1,6-dihydro-6-oxo-4-pyrimidinyl)phenyl]- (9CI) (CA INDEX NAME)



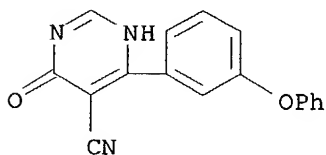
RN 760966-75-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



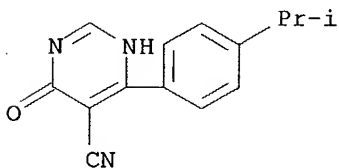
RN 760966-76-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-(3-phenoxyphenyl)- (9CI)
(CA INDEX NAME)



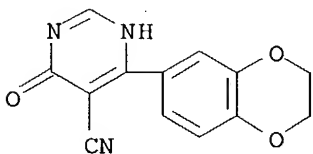
RN 760966-77-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-[4-(1-methylethyl)phenyl]-4-oxo-
(9CI) (CA INDEX NAME)



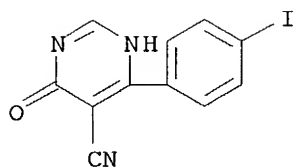
RN 760966-78-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



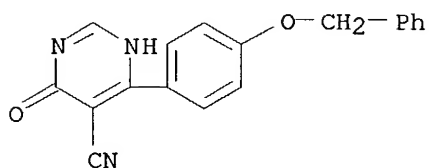
RN 760966-79-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-iodophenyl)-4-oxo- (9CI) (CA
INDEX NAME)



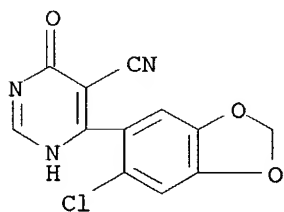
RN 760966-80-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-[4-(phenylmethoxy)phenyl]-
(9CI) (CA INDEX NAME)



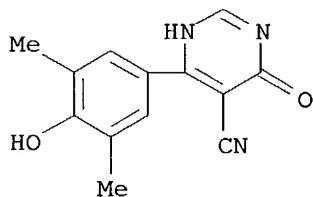
RN 760966-81-2 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



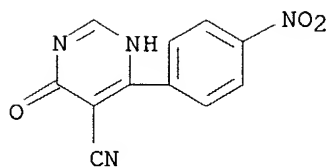
RN 760966-82-3 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-hydroxy-3,5-dimethylphenyl)-4-
oxo- (9CI) (CA INDEX NAME)



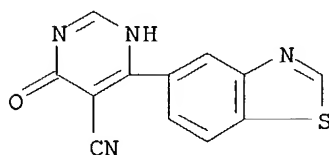
RN 760966-83-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-nitrophenyl)-4-oxo- (9CI) (CA
INDEX NAME)



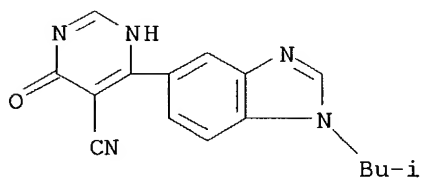
RN 760966-84-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(5-benzothiazolyl)-1,4-dihydro-4-oxo- (9CI)
(CA INDEX NAME)



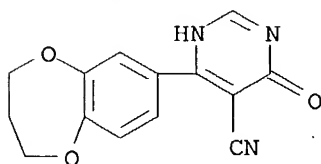
RN 760966-85-6 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-[1-(2-methylpropyl)-1H-benzimidazol-5-yl]-4-oxo- (9CI) (CA INDEX NAME)



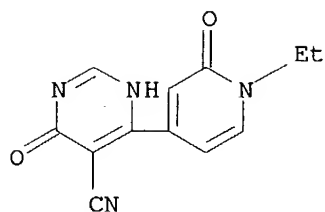
RN 760966-86-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



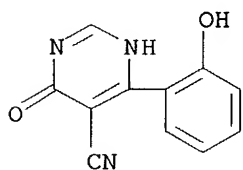
RN 760966-87-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(1-ethyl-1,2-dihydro-2-oxo-4-pyridinyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



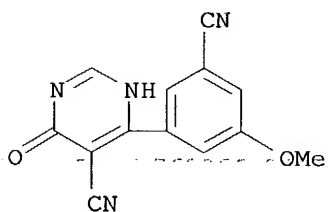
RN 760966-88-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(2-hydroxyphenyl)-4-oxo- (9CI)
(CA INDEX NAME)



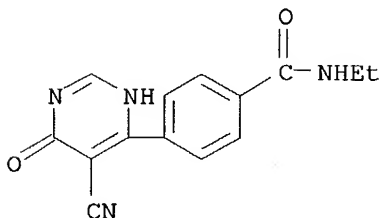
RN 760966-89-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3-cyano-5-methoxyphenyl)-1,4-dihydro-4-oxo-
(9CI) (CA INDEX NAME)



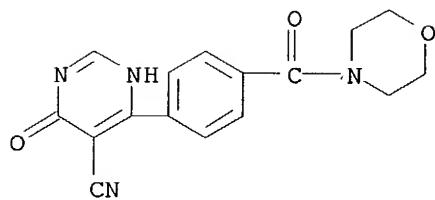
RN 760966-90-3 CAPLUS

CN Benzamide, 4-(5-cyano-1,6-dihydro-6-oxo-4-pyrimidinyl)-N-ethyl- (9CI) (CA
INDEX NAME)



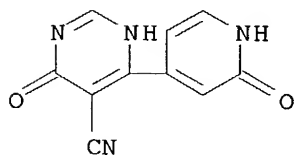
RN 760966-91-4 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



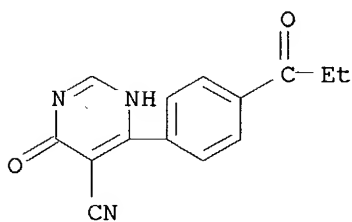
RN 760966-92-5 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(1,2-dihydro-2-oxo-4-pyridinyl)-1,4-dihydro-4-oxo- (9CI) (CA INDEX NAME)



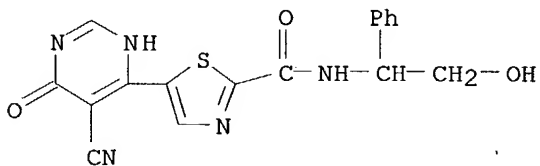
RN 760966-93-6 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



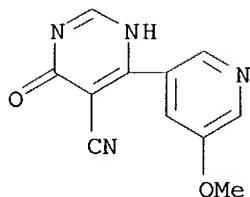
RN 760966-94-7 CAPLUS

CN 2-Thiazolecarboxamide, 5-(5-cyano-1,6-dihydro-6-oxo-4-pyrimidinyl)-N-(2-hydroxy-1-phenylethyl)- (9CI) (CA INDEX NAME)



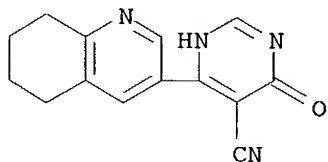
RN 760966-95-8 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(5-methoxy-3-pyridinyl)-4-oxo-
(9CI) (CA INDEX NAME)



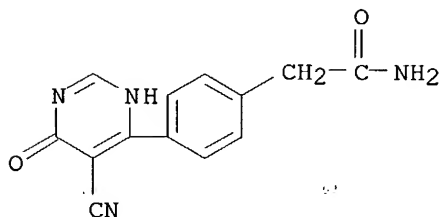
RN 760966-96-9 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-(5,6,7,8-tetrahydro-3-quinolinyl)- (9CI) (CA INDEX NAME)



RN 760966-97-0 CAPLUS

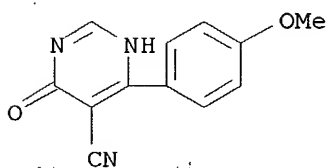
CN Benzeneacetamide, 4-(5-cyano-1,6-dihydro-6-oxo-4-pyrimidinyl)- (9CI) (CA INDEX NAME)



RE.CNT 4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 19 CAPLUS. COPYRIGHT 2004 ACS on STN
 AN 2003:190837 CAPLUS
 DN 139:36510
 TI Synthesis of bioactive aza-heterocyclic systems derived from novel
 biheterocyclic enone
 AU Abdel-Megid, M.; Ismail, M. M.
 CS Chemistry Department, Faculty of Education, Ain-Shams University, Cairo,
 Egypt
 SO International Journal of Chemistry (2002), 12(4), 287-296
 CODEN: INJCEW
 PB Institute of Science & Technology
 DT Journal
 LA English
 OS CASREACT 139:36510
 AB Some interesting bioactive Aza-heterocycles bearing quinolinone and
 pyridazinone moieties, such as pyrazoles, isoxazole, cyanopyridinethione
 pyrimidinethione, pyrimidopyrimidine, thiazines, diazepines, oxazepines
 and thiazepine have been synthesized from 1-(5,6-diphenyl-2-H-3-
 oxopyridazin-4-yl)-3-(1-ethyl-4-hydroxy-2-oxoquinolin-3-yl) propenone
 (I). Some of the newly products were subjected under biol. tests.
 IT **543700-28-3**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of bioactive aza-heterocyclic systems derived from novel
 biheterocyclic enone)
 RN 543700-28-3 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-methoxyphenyl)-4-oxo- (9CI)
 (CA INDEX NAME)



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:72103 CAPLUS
 DN 136:134776
 TI Preparation of tetrahydro-heterocycloazepinyl pyrimidines as mGluR antagonists
 IN Binggeli, Alfred; Maerki, Hans-Peter; Mutel, Vincent; Wostl, Wolfgang; Wilhelm, Maurice
 PA F. Hoffmann-La Roche A.-G., Switz.
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002006288	A1	20020124	WO 2001-EP8186	20010716	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	US 6369222	B1	20020409	US 2001-902916	20010711	
	US 2002045635	A1	20020418			
	EP 1303521	A1	20030423	EP 2001-978247	20010716	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	BR 2001012586	A	20030520	BR 2001-12586	20010716	
	JP 2004504324	T2	20040212	JP 2002-512190	20010716	
PRAI	EP 2000-115450	A	20000718			
	WO 2001-EP8186	W	20010716			

OS MARPAT 136:134776

AB The title compds. [I; R1 = O, OH, alkoxy, 2,2,2-trifluoroethoxy; R2 = NO2, CN; R3 = H, alkyl, alkoxy, etc.; R4 = H, alkyl, alkenyl or is absent; R5, R6, R9, R10 = H, alkyl; CR11R12HETCR7R8 = II-V; R7, R8, R11, R12 = H, alkyl, OH; R13, R14 = H, alkyl; R15, R16 = H, alkyl; R17 = H, alkyl, alkoxy, OH, NH2; R18 = H, OH; R19 = H, alkyl, alkoxy, OH, NH2; V = NH, S, O] which are mGluR antagonists and are therefore useful for the control or prevention of acute and/or chronic neurol. disorders, were prepared and formulated. Thus, reacting 6-bromo-2-methyl-5-nitro-3H-pyrimidin-4-one (preparation given) with 2-methyl-5,6,7,8-tetrahydro-4H-thiazolo[4,5-d]azepine.HCl in the presence of K2CO3 in DMF afforded 78.5% VI which showed IC50 of 30 µM against mGluR1 binding.

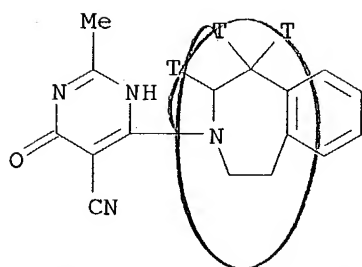
IT **391953-88-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of tetrahydro-heterocycloazepinyl pyrimidines as mGluR antagonists)

RN 391953-88-1 CAPLUS

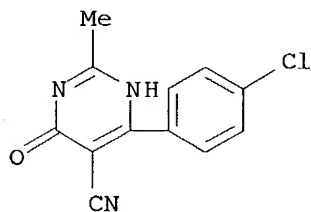
CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-4-oxo-6-(1,2,4,5-tetrahydro-1-t-3H-3-benzazepin-3-yl-1,2-t2)- (9CI) (CA INDEX NAME)



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:693290 CAPLUS
 DN 135:257254
 TI Preparation of pyrimidinone derivatives as herbicides or pesticides
 IN Kudo, Yoshihiro; Katsumata, Akira; Maeda, Kazushige; Akiyama, Shigeaki;
 Yaosaka, Manabu; Morimoto, Katsushi; Nakahira, Kunimitsu; Ohki, Tooru;
 Hamada, Nobuyuki; Yano, Tetsuhiko; Noguchi, Junko; Watanabe, Shigeomi
 PA Nissan Chemical Industries, Ltd., Japan
 SO PCT Int. Appl., 186 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001068613	A1	20010920	WO 2001-JP2158	20010319
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	JP 2002220377	A2	20020809	JP 2001-76067	20010316
PRAI	JP 2000-76493	A	20000317		
	JP 2000-357541	A	20001124		
OS	MARPAT 135:257254				
AB	Title compds. [I; R = H, CHF ₂ , CH ₃ , (CH ₃) ₂ CH, CHCCH ₂ , CH ₃ SCH ₂ , CH ₃ SO ₂ CH ₂ , CH ₃ OCH ₂ , CH ₂ F(CH ₂) ₂ ; Y = O, S; X = H, C1-4 alkyl; Z1 = N, CR1; R1 = H, Cl, CN, CHCCH ₂ O; Z2 = CH, N; Q = aryl, benzoheterocycle] and salts are prepared as herbicides or pesticides. Thus, the title compound II was prepared and tested for herbicidal effect.				
IT	361430-05-9P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of pyrimidinone derivs. as herbicides or pesticides)				
RN	361430-05-9 CAPLUS				
CN	5-Pyrimidinecarbonitrile, 6-(4-chlorophenyl)-1,4-dihydro-2-methyl-4-oxo-(9CI) (CA INDEX NAME)				



RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:98457 CAPLUS
 DN 134:147611
 TI Preparation of tetrahydrobenzo[d]azepines as metabotropic glutamate
 receptor 1 antagonists
 IN Adam, Geo; Binggeli, Alfred; Maerki, Hans-Peter; Mutel, Vincent; Wilhelm,
 Maurice; Westl, Wolfgang
 PA F. Hoffmann-La Roche A.-G., Switz.
 SO Eur. Pat. Appl., 85 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1074549	A2	20010207	EP 2000-116091	20000727
	EP 1074549	A3	20020731		
	EP 1074549	B1	20031119		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	AT 254614	E	20031215	AT 2000-116091	20000727
	CA 2314798	AA	20010206	CA 2000-2314798	20000801
	US 6218385	B1	20010417	US 2000-630702	20000801
	NZ 506096	A	20020828	NZ 2000-506096	20000801
	ZA 2000003927	A	20010206	ZA 2000-3927	20000802
	AU 2000048979	A5	20010208	AU 2000-48979	20000802
	AU 774485	B2	20040701		
	HR 2000000520	A1	20010630	HR 2000-520	20000802
	SG 93251	A1	20021217	SG 2000-4344	20000802
	NO 2000003966	A	20010207	NO 2000-3966	20000804
	CN 1283623	A	20010214	CN 2000-122523	20000804
	TR 200002298	A2	20010321	TR 2000-200002298	20000804
	JP 2001089472	A2	20010403	JP 2000-236848	20000804
	JP 3260350	B2	20020225		
	BR 2000003375	A	20010313	BR 2000-3375	20000807
PRAI	EP 1999-115557	A	19990806		

OS MARPAT 134:147611

AB The title compds. (I) [wherein R1 = H, alkyl, O, halo, OR, cycloalkoxy,
 (un)substituted cycloalkylalkoxy, cyanoalkoxy, (fluoro)alkoxy,
 aminoalkoxy, alkenyloxy, phenylalkoxy, heterocyclylalkoxy,
 sulfonyloxyalkoxy, SR, carboxyalkylthio, NR2, hydroxyalkylamino, or
 heterocyclylalkylamino; n = 1-6; R = independently H, alkyl, or alkenyl;
 R2 = NO2 or CN; R3 = H, alkyl, O, S, SR, alkylsulfonyl, cycloalkyl, CONR2,
 NR2, alkyl, OR, or (un)substituted piperazino, carbamoylalkyl,
 alkoxyalkyl, fluoroalkyl, trifluoroacetoxyalkyl, carboxyalkyl,
 phenylthioalkyl, heterocyclylalkoxy, acylamino, alkylamino,
 phenoxyalkylamino, heterocyclylalkylamino, fluoroalkoxy, etc.; R4 = H,
 alkyl, alkenyl, NO2, OR, NR2, or (un)substituted fluoroalkoxy,
 fluoroalkyl, phenylalkyl, alkoxyalkanol, aminoalkyl, carboxyalkyl,
 alkylsulfonyloxyalkyl, fluoroalkenyl, heterocyclylalkyl,
 heterocyclylalkylamino, alkoxycarbonylamino, alkoxycarbonylhydrazino,
 aminofluoroalkenylamino; or R4 and R1 or R3 and R4 form an addnl. ring; R5
 and R6 = independently H, alkyl, alkoxy, NH2, HO2, SO2NH2, or halo; or R5
 and R6 = OCH2O; R7 and R8 = independently H, alkyl, alkoxy, NH2, NO2, or
 halo; R9 and R10 = independently H or alkyl; R11 and R12 = independently
 H, alkyl, OH, alkoxy, alkoxycarbonyloxy, or alkanoyloxy; R13 and R14 =
 independently H, T, or alkyl; R15 and R16 = independently H, T, alkyl, OH,
 alkoxy, alkoxycarbonyloxy, or alkanoyloxy; or R15 and R16 = O; X = N or C;

Y = N, NH, or CH] were prepared. For example, addition of Et 2-cyano-3,3-bis(methylthio)acrylate to 2,3,4,5-tetrahydro-1H-benzo[d]azepine•HCl using TEA and K₂CO₃ in EtOH gave 2-cyano-3-methylsulfanyl-3-(1,2,4,5-tetrahydrobenzo[d]azepin-3-yl)acrylic acid Et ester (64%). The benzazepinylacrylate ester was treated with NH₂C(NH)NH₂•HNO₃ and 1,8-diazabicyclo[5.4.0]undec-7-ene in DMF to give II (R = H). Ethylation of II (R = H) with EtI in DMF in the presence of K₂CO₃ afforded the preferred metabotropic glutamate receptor 1 (mGluR1) antagonist II (R = Et), which gave an IC₅₀ values of 0.009 μM and 0.003 μM, resp. in functional and binding assays for the characterization of mGluR1 antagonist properties. I are useful in the prevention or control of acute and/or chronic neurol. disorders and as radiolabeled mGluR1 receptor antagonists in binding assays (no data).

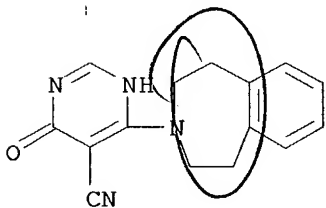
IT 324552-69-4P 324553-54-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of tetrahydrobenzo[d]azepine mGluR1 antagonists by addition of chloroheterocycles or halobenzenes to tetrahydrobenzo[d]azepines or by cycloaddn. of guanidines to 3-methylthio-3-(tetrahydrobenzo[d]azepin-3-yl)acrylates)

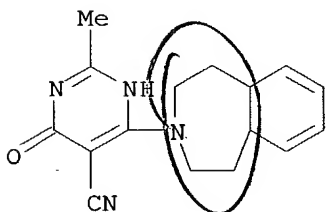
RN 324552-69-4 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-(1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)- (9CI) (CA INDEX NAME)

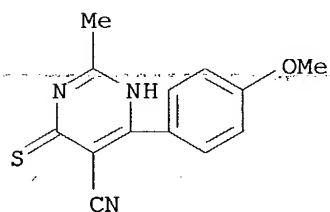


RN 324553-54-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-4-oxo-6-(1,2,4,5-tetrahydro-3H-3-benzazepin-3-yl)- (9CI) (CA INDEX NAME)

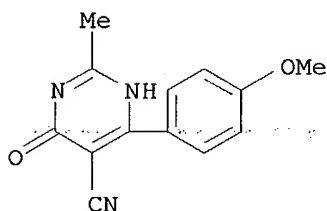


L6 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2000:256839 CAPLUS
 DN 133:30702
 TI Nitrogen bridgehead compounds, facile synthesis of bioactive
 cyanopyrimido[1,2-a]pyrimidinones
 AU Abdel-Megid, Mohamed
 CS Chemistry Department, Faculty of Education, Ain-Shams University, Cairo,
 Egypt
 SO Pharmazie (2000), 55(4), 263-268
 CODEN: PHARAT; ISSN: 0031-7144
 PB Govi-Verlag Pharmazeutischer Verlag
 DT Journal
 LA English
 OS CASREACT 133:30702
 AB Synthesis of some new cyanopyrimido[1,2-a]pyrimidinones was achieved via
 interaction of 2-amino-6-anisyl-5-cyano-4(3H)-pyrimidinone with some
 heterocycles having a vicinal chloro ester, chlorocyano or mercaptocyano
 group, di-Me acetylenedicarboxylate, active methylene compds., Et
 2-acetyl-3-anisylpropenoate, Et 3-aryl-3-cyanopropenoates, Et
 2-cyano-3-ethoxyacrylate and some enones or enals. Some of the isolated
 products were subjected to biol. screening tests. This type of compound was
 found to be useful as co-enzymic factor in the acceleration of cellobiase
 activity.
 IT **273940-83-3**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and activity of cyanopyrimido[1,2-a]pyrimidinones as cellobiase
 co-enzymes)
 RN 273940-83-3 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-methoxyphenyl)-2-methyl-4-
 thioxo- (9CI) (CA INDEX NAME)



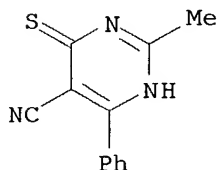
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:323074 CAPLUS
 DN 127:65740
 TI Synthesis of some heterobicyclic compounds bearing 4-anisyl-5-cyano-2-methyl-6-oxopyrimidin-1-yl moiety
 AU Abdel-Megid, Mohamed
 CS Department of Chemistry, Faculty of Education, Ain-Shams University, Cairo, Egypt
 SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1997), 36B(3), 269-271
 CODEN: IJSBDB; ISSN: 0376-4699
 PB National Institute of Science Communication
 DT Journal
 LA English
 OS CASREACT 127:65740
 AB The reactions of 4-anisyl-5-cyano-2-methyl-6(1H)-pyrimidinone I (R = H) and/or acetic acid hydrazide derivative I (R = CH₂CONHNH₂) with α,β -bifunctional compds., e.g., (EtO)₂CHCH₂Br, under different conditions have been reinvestigated and the structures of obtained heterobicyclic systems, e.g., II, were confirmed by spectroscopic methods. The mass spectra of some synthesized compds. have been studied to establish their fragmentation processes.
 IT **191281-42-2**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of cyanooxypyrimidinyl heterobicyclic compds.)
 RN 191281-42-2 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(4-methoxyphenyl)-2-methyl-4-oxo-(9CI) (CA INDEX NAME)

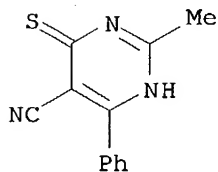


RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

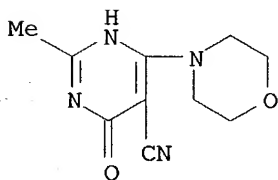
L6 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:469812 CAPLUS
DN 117:69812
TI Dimerizing condensation of alkylidenepropanedinitriles and
alkylidenecyanamides. A general approach to aniline, aminopyridine, and
aminopyrimidine derivatives
AU Hartke, Klaus; Sauerbier, Michaela; Richter, Wolfgang F.
CS Inst. Pharm. Chem., Univ. Marburg, Marburg, D-3550, Germany
SO Archiv der Pharmazie (Weinheim, Germany) (1992), 325(5), 279-84
CODEN: ARPMAS; ISSN: 0365-6233
DT Journal
LA German
AB The base-catalyzed dimerizing condensation of (α -
methylthioalkylidene)propanedinitriles, such as MeSCMe:C(CN)₂, yields
2-aminobenzene-1,3-dicarbonitriles, e.g., I; that of (α -
methylthioalkylidene)cyanamides, e.g., MeSCMe:NCN, gives
2-aminopyrimidines, e.g., II. The mixed condensation of
(α -aminoalkylidene)propanedinitriles, e.g., H₂NCPH:C(CN)₂, with
(α -methylthioalkylidene)cyanamides, e.g., MeSCPh:NCN, leads to
pyrimidine-5-carbonitriles, e.g., III.
IT **13996-07-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(chlorination of)
RN 13996-07-1 CAPLUS
CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-phenyl-4-thioxo- (8CI,
9CI) (CA INDEX NAME)



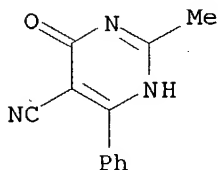
L6 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:448480 CAPLUS
DN 117:48480
TI Synthesis and biological activities of some new pyrimidine derivatives
AU Seada, M.; Abdel-Halim, A. M.; Ibrahim, S. S.; Abdel-Megid, M.
CS Fac. Educat., Ain Shams Univ., Roxy, Egypt
SO Asian Journal of Chemistry (1992), 4(3), 544-52
CODEN: AJCHEW; ISSN: 0970-7077
DT Journal
LA English
AB Synthesis of 4-chloro-5-cyano-2-methyl-6-phenylpyrimidine (I, R = Cl) and its reactions with acetamide hydrochloride, guanidine hydrochloride, cyanoacetamide, benzil monohydrazone, sodium azide, semicarbazide hydrochloride, acid hydrazides, active methylene compds., aromatic amines and thiourea were investigated. Also, the reactions of 5-cyano-2-methyl-6-phenyl-4(3H)-pyrimidinethione I (R = SH) with Et iodide, Et chloroacetate, phenacyl bromide, acrylonitrile and heterocyclic chlorides are reported. A number of products from these two series of reactions, including aminocyanopyridopyrimidinone II and (phenylbutadienyl)pyrimidine III were evaluated for bactericidal and fungicidal activity.
IT **13996-07-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation of)
RN 13996-07-1 CAPLUS
CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-phenyl-4-thioxo- (8CI, 9CI) (CA INDEX NAME)



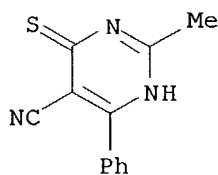
L6 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:95143 CAPLUS
 DN 110:95143
 TI Synthesis of pyrimidine derivatives by the reaction of ketene dithioacetals with amides
 AU Kohra, Shinya; Tominaga, Yoshinori; Hosomi, Akira
 CS Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852, Japan
 SO Journal of Heterocyclic Chemistry (1988), 25(3), 959-68
 CODEN: JHTCAD; ISSN: 0022-152X
 DT Journal
 LA English
 OS CASREACT 110:95143
 AB Reactions of Me 2-cyano-3,3-bis(methylthio)acrylate (MeS)₂C:CR₂CN (I, R = CO₂Me) with carboxamides R₁CONH₂ (II, R₁ = 4-R₂C₆H₄, ClCH₂, Me, PhCH₂CH₂; R₂ = H, NO₂, Me, MeO) in the presence of NaH gave the resp. Me 3-N-acylamino-2-cyano-3-(methylthio)acrylates R₁CONaC(SMe):C(CO₂Me)CN, which were readily converted to the resp. pyrimidine derivs. III (R = CO₂Me) at reflux in methanol in good yields. Reactions of 2-cyano-3,3-bis(methylthio)acrylonitrile I (R = CN) with the carboxamides II gave directly pyrimidine-5-carbonitrile derivs. III (R = CN). Ketene dithioacetals smoothly reacted with thioacetamide or ureas to give the expected pyrimidine derivs. Polyfunctionalized pyrimidines, thus obtained, were also used for the synthesis of fused pyrimidine derivs.
 IT **118996-56-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 118996-56-8 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-(4-morpholinyl)-4-oxo-
 (9CI) (CA INDEX NAME)



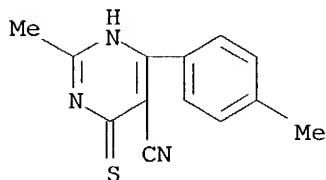
L6 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1985:113408 CAPLUS
 DN 102:113408
 TI Synthesis of 2,4-dioxo, 2-oxo-4-thioxo, 4-oxo-, and 4-thioxopyrimidine-5-carbonitriles
 AU Cuadrado, Francisco J.; Perez, Miguel A.; Soto, Jose, L.
 CS Dep. Quim. Org., Univ. Complutense, Madrid, Spain
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1984), (10), 2447-9
 CODEN: JCPRB4; ISSN: 0300-922X
 DT Journal
 LA English
 OS CASREACT 102:113408
 AB Cyclocondensation of Me N-methoxycarbonylimidates with NCCH₂CONH₂ (I) and NCCH₂CSNH₂ (II) in the presence of NaOMe gave tetrahydro-2,4-dioxo- and -2-oxo-4-thioxopyrimidine-5-carbonitriles, resp. E.g., 93% pyrimidinedione III (X = O) was obtained on refluxing PhCH₂C(OMe):NCO₂Me with I in MeOH for 12 h. Analogous reactions with alkyl N-acylimidates gave dihydro-4-oxo- and -thioxopyrimidine-5-carbonitriles. E.g., PhC(OEt):NCOC₆H₄Cl-4 with II gave 49% pyrimidinethione IV on refluxing for 4 h in MeOH. III (X = S) and IV were methylated to the methylthio derivs. V and VI, in 70% and 75% yield, resp., and cyclized to give 54% dihydrothienopyrimidine VII and 80% thienopyrimidine VIII, resp., on refluxing with ClCH₂CO₂Me and NaOMe in MeOH.
 IT **82141-07-9P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, by cyclocondensation reaction of alkyl acylimidate with cyanoacetamide)
 RN 82141-07-9 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)



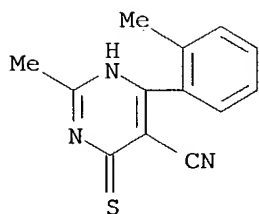
L6 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1982:423736 CAPLUS
 DN 97:23736
 TI Synthesis of heterocycles. XXI. 6-Substituted 5-cyano-2-methyl-4-pyrimidinethiones
 AU Soto, Jose L.; Lorente, A.; Garcia Navio, Jose L.
 CS Fac. Quim., Univ. Complutense, Madrid, Spain
 SO Anales de Quimica, Serie C: Quimica Organica y Bioquimica (1981), 77(3), 255-7
 CODEN: AQSD6; ISSN: 0211-1357
 DT Journal
 LA Spanish
 AB Pyrimidinethiones I (R = Ph, 4-MeC₆H₄, 2-MeC₆H₄, 3-ClC₆H₄) were obtained in 50-75% yield by treating MeOCR:C(CN)₂ with MeCSNH₂. Reaction of EtOCMe:C(CN)₂ with MeCSNH₂ similarly gave 14% I (R = Me). I (R = Ph) was S-methylated and methylthiopyrimidine was hydrolyzed to give the pyrimidinone. KIO₄ oxidation of I (R = Ph) gave the disulfide.
 IT **13996-07-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and methylation of)
 RN 13996-07-1 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-phenyl-4-thioxo- (8CI, 9CI) (CA INDEX NAME)



IT **82141-03-5P 82141-04-6P 82141-05-7P 82141-07-9P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 82141-03-5 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-(4-methylphenyl)-4-thioxo- (9CI) (CA INDEX NAME)

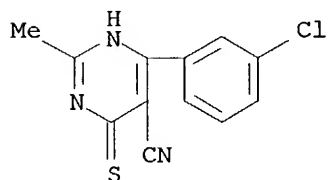


RN 82141-04-6 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-(2-methylphenyl)-4-thioxo- (9CI) (CA INDEX NAME)



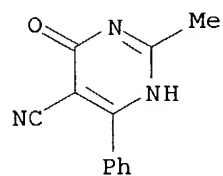
RN 82141-05-7 CAPLUS

CN 5-Pyrimidinecarbonitrile, 6-(3-chlorophenyl)-1,4-dihydro-2-methyl-4-thioxo- (9CI) (CA INDEX NAME)

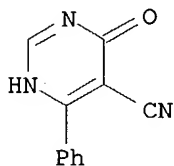


RN 82141-07-9 CAPLUS

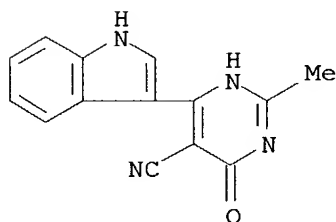
CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)



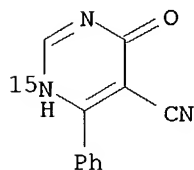
L6 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1980:146395 CAPLUS
 DN 92:146395
 TI Syntheses with nitriles, LVII. The reactivity of
 aminomethylenemalonodinitriles towards aldehydes and ortho esters
 AU Mittelbach, Martin; Juneck, Hans
 CS Inst. Org. Chem., Univ. Graz, Graz, Austria
 SO Zeitschrift fuer Naturforschung, Teil B: Anorganische Chemie, Organische
 Chemie (1979), 34B(11), 1580-6
 CODEN: ZNBAD2; ISSN: 0340-5087
 DT Journal
 LA German
 OS CASREACT 92:146395
 AB Condensation of $\text{H}_2\text{NCH}:\text{C}(\text{CN})_2$ with 4- $\text{RC}_6\text{H}_4\text{CHO}$ ($\text{R} = \text{Cl}$ or NMe_2) and
 (MeO) $_2\text{CHNMe}_2$, resp., led to 4- $\text{RC}_6\text{H}_4\text{CH}:\text{C}(\text{CN})_2$ and $\text{Me}_2\text{NCH}:\text{C}(\text{CN})_2$, resp. A
 mechanism of this cleavage of a C:C double bond is discussed. Several
 substituted enamionitriles $\text{H}_2\text{NCR}_1:\text{CR}_2\text{CN}$ (I; $\text{R}_1 = \text{Me}$, Et or Ph ; $\text{R}_2 = \text{CN}$ or
 CONH_2) were prepared and the irreactivity against aldehydes was studied.
 Thus, condensation of I ($\text{R}_1 = \text{Me}$, $\text{R}_2 = \text{CN}$) with R_3CHO ($\text{R}_3 =$ substituted
 Ph) gave $\text{R}_3\text{CH}:\text{CHC}(\text{NH}_2):\text{C}(\text{CN})_2$. The reaction of I ($\text{R}_1 = \text{Me}$ or Ph , $\text{R}_2 =$
 CONH_2) with R_3CHO or $\text{CH}(\text{OEt})_3$ gave pyrimidinecarbonitriles II and III,
 resp.
 IT **73249-90-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 73249-90-8 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX
 NAME)



L6 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1978:31980 CAPLUS
DN 88:31980
TI Antitumor activity of indole derivatives
AU Kobayashi, Goro; Matsuda, Yoshiro; Tominaga, Yoshinori; Ohkuma, Mihoko;
Shinoda, Hirotaka; Kohno, Morihiro; Mizuno, Den'ichi
CS Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, Japan
SO Yakugaku Zasshi (1977), 97(9), 1033-9
CODEN: YKKZAJ; ISSN: 0031-6903
DT Journal
LA Japanese
AB Sixty-one indole derivs. containing oxindole, spiro-oxindole, and
condensed-ring indole were prepared and their antitumor activity was examined
using a solid type of Ehrlich carcinoma. 1-Methyl-3-(1-methylthio-1-
morpholinomethylene)oxindole (I) [15127-79-4] was found to have some
antitumor effect, but no other derivs. were found effective.
IT **18234-35-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antitumor activity of)
RN 18234-35-0 CAPLUS
CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(1H-indol-3-yl)-2-methyl-4-oxo-
(9CI) (CA INDEX NAME)



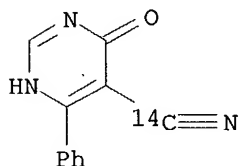
L6 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1973:147896 CAPLUS
 DN 78:147896
 TI Pyrimidines from this laboratory. XXXII. Addition nucleophile ring opening ring closing mechanism. VII. Reaction of 4-chloro-5-cyano-6-phenylpyrimidine with potassium amide in liquid ammonia at -75.deg.
 AU De Valk, J.; Van der Plas, H. C.
 CS Lab. Org. Chem., Agric. Univ., Wageningen, Neth.
 SO Recueil des Travaux Chimiques des Pays-Bas (1973), 92(3), 471-80
 CODEN: RTCPA3; ISSN: 0165-0513
 DT Journal
 LA English
 AB By treatment with KNH₂ in liquid NH₃ at -75°, 4-chloro-5-cyano-6-phenylpyrimidine is converted into 4-amino-5-cyano-6-phenyl-pyrimidine; 1-amino-2,2-dicyano-1-phenylethene is formed as a minor reaction product. Evidence is presented, using the labeled compds. 4-chloro-5-cyano-6-phenyl-[1(3)-15N]- and 4-chloro-5-cyano-14C-6-phenylpyrimidine that the conversion into the corresponding 4-amino compound proceed completely according to the ANRORC mechanism, and the cyano-14C function remains nearly completely extranuclear. The synthesis of the 15N- and 14C-labeled 4-chloro-5-cyano-6-phenyl- pyrimidines is described.
 IT **40889-21-2P 40889-25-6P 40904-79-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 40889-21-2 CAPLUS
 CN 5-Pyrimidine-1-15N-carbonitrile, 1,4-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)



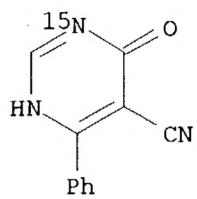
Same as # 13.

REF

RN 40889-25-6 CAPLUS
 CN 5-Pyrimidinecarbonitrile-14C, 1,4-dihydro-4-oxo-6-phenyl- (9CI) (CA INDEX NAME)



RN 40904-79-8 CAPLUS
 CN 5-Pyrimidine-1-15N-carbonitrile, 1,6-dihydro-6-oxo-4-phenyl- (9CI) (CA INDEX NAME)



c1c

L6 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1971:449129 CAPLUS
 DN 75:49129
 TI 3-Substituted indoles
 IN Kobayashi, Goro; Matsuda, Yoshiro
 PA Kowa Co., Ltd.
 SO Jpn. Tokkyo Koho, 5 pp.
 CODEN: JAXXAD
 DT Patent
 LA Japanese
 FAN.CNT 1

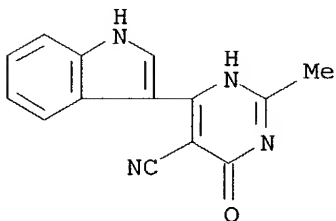
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 46008698	B4	19710305	JP	19670213

AB I (X and Y = CN or alkoxy carbonyl) are prepared from 2-R substituted indoles and some I are converted to II. Thus, EtMgBr was prepared from 2.3 g Mg and 10 g EtBr in 50 ml THF, treated with 10 g indole, and added to 17.4 g (MeS)2C:C(CN)CO2Me in 80 ml THF. The mixture was refluxed 1 hr to give on chromatog. 10.7 g I (R = H, X = CN, Y = CO2Me) (III), m. 145°. I prepared were (R, X, Y, and m.p. given): H, CN, CO2Et, 172°; H, CN, CN, 183-4°; H, CO2Et, CO2Et, 132°; Me, CO2Me, CO2Me, 129-32°; Me, CN, CO2Me, 152-4°; Ph, CN, CO2Me, 209-10°. Guanidine-HCl (0.17 g) and 0.04 g Na in 10 ml MeOH was clarified and refluxed 1 hr with 0.5 g III to give 0.15 g II (Z = NH2), m. >300°. II (Z = Me), m. >300°, was prepared with MeC(:NH)NH2 or NH4OAc instead of guanidine.

IT **18234-35-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 18234-35-0 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(1H-indol-3-yl)-2-methyl-4-oxo-(9CI) (CA INDEX NAME)



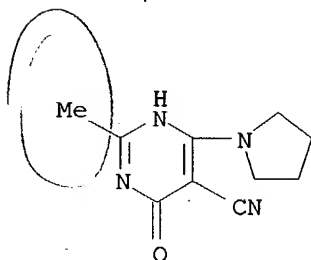
Same as #14

L6 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1971:53838 CAPLUS
 DN 74:53838
 TI 4-Amino-6-hydroxypyrimidines
 IN Thomas, Gottfried; Braeuer, Siegfried; Fuerst, Hans; Held, Paul
 SO Ger. (East), 2 pp.
 CODEN: GEXXA8

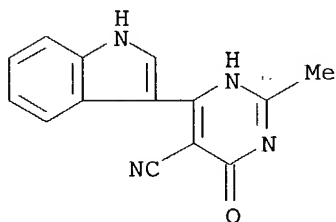
DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 72790		19700505	DD	19681108
AB	The title compds. (I) are obtained by treatment of a similarly substituted trichloromethylpyrimidine (II) with appropriately substituted primary or secondary aliphatic or cyclic amines R ₂ R ₃ NH. Thus, II (R ₁ = Me, Y = CO ₂ Me) heated 20 min from 50-85° with excess H ₂ NCH ₂ CH ₂ CN and the mixture treated with H ₂ O yielded 85% I (R ₁ = Me, R ₂ = CH ₂ CH ₂ CN, R ₃ = H, Y = CO ₂ Me), m. 278-80° (decomposition)(HCONMe ₂ -H ₂ O). Similarly were obtained I (R ₁ , R ₂ , R ₃ , and Y given): Me, (R ₂ R ₃ =) (CH ₂) ₄ , CN; Ph, HOCH ₂ CH ₂ , H, CO ₂ Me; Me, PhCH ₂ , H, Bz.				
IT	30393-09-0P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	30393-09-0 CAPLUS				
CN	5-Pyrimidinecarbonitrile, 4-hydroxy-2-methyl-6-(1-pyrrolidinyl)- (8CI) (CA INDEX NAME)				



L6 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1968:29522 CAPLUS
 DN 68:29522
 TI Indole derivatives. V. Reaction of 3-methylthio-3-(3-indolyl)acrylic
 acid derivatives with some amines
 AU Kobayashi, Goro; Furukawa, Sunao; Matsuda, Yoshiro; Washida, Yuko
 CS Univ. Nagasaki, Nagasaki, Japan
 SO Yakugaku Zasshi (1967), 87(7), 857-60
 CODEN: YKKZAJ; ISSN: 0031-6903
 DT Journal
 LA Japanese
 AB Synthesis of I was reported. In an example, a mixture of 1 g. Me
 2-cyano-3-methylthio-3-(3-indolyl)acrylate in 10 ml. MeOH is refluxed 2
 hrs. with 0.45 g. ethanolamine and evaporated. To the residue is added H₂O,
 and the precipitate recrystd. from MeOH to give 90% I [R₁ = NH(CH₂)₂OH, R₂ = H,
 R₃ = CO₂Me], m. 181°. Similarly prepared are the following I (R₁,
 R₂, R₃, m.p., and % yield given): pyrrolidino, H, CO₂Me, 185-6°,
 72; piperidino, H, CO₂Me, 181°, 46; piperidino, H, H, 197°,
 89; NHCH₂CO₂Et, H, CO₂Me, 192-3°, 83; NH₂, H, CO₂Me, 203°,
 58; NH(CH₂)₂OH, H, CN, 198-9°, 80; pyrrolidino, H, CN, 208°,
 73; piperidino, H, CN, 221°, 70; NHCH₂CO₂Et, H, CN, 153°,
 50; NH(CH₂)₂NEt₂, H, CN, 153° (hydrochloride), 70; NH(CH₂)₂OH, Me,
 CO₂Me, 155°, 67; NH(CH₂)₂NEt₂, Me, CO₂Me, 156°, 49; NH₂, Me,
 CO₂Me, 215°, 78.
 IT **18234-35-0P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 18234-35-0 CAPLUS
 CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-6-(1H-indol-3-yl)-2-methyl-4-oxo-
 (9CI) (CA INDEX NAME)



Same as #14

L6 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1967:65441 CAPLUS

DN 66:65441

TI Synthesis of pyrimidine-4-thiones and pyrazolo[3,4-d]pyrimidines

AU Goerdeler, Joachim; Wieland, Dieter

CS Univ. Bonn, Bonn, Fed. Rep. Ger.

SO Chemische Berichte (1967), 100(1), 47-59

CODEN: CHBEAM; ISSN: 0009-2940

DT Journal

LA German

OS CASREACT 66:65441

AB MeC(NH₂):CHC(O)Me (I) (0.99 g.) in 15 ml. absolute Et₂O was treated dropwise with 1.01 g. AcNCS in 5 ml. Et₂O. The mixture was refluxed for 0.5 hr., filtered and the residue washed with absolute Et₂O to yield 1.48 g. ZMe[Z = MeC(NH₂):CAC(S)NHC(O)], m. 141° (decomposition). (MeOH-petroleum ether). Similarly were prepared (% yield and m.p. given): ZEt, 73, 128°; Zpr, 72, 113°; Z-tert-Bu, 77, 129°; ZC₁₅H₃₁, 69, 81°; ZCH₂Ph, 70, 154°; ZCH:CHPh, 68, 142°; ZC₆H₄OMe-p, 124°; ZC₆H₄Me-m, 66, 128°; ZC₆H₄Cl-p, 67, 157°; ZC₆H₄NO₂-p, 85, 132°. NaSCN (1 g.) in 20 ml. absolute AcOEt and 15 ml. absolute dioxane treated with 2,3-dichloroquinazoline-7-carboxylic acid chloride at 0°, centrifuged to remove NaCl, and treated with 0.99 g. I gave 65% N-[β-amino-α-acetylthiocrotonyl]-2,3-dichloroquinazoline-7-carboxamide, m. 159° (dioxane-Et₂O) (decomposition). ClCH₂CH₂CONCS (1.5 g.) in 5 ml. absolute Et₂O were added dropwise

to 1.29 g. MeC(NH₂):CHCO₂Et in Et₂O and refluxed for 0.5 hr. to give 65% N-(β-amino-α-ethoxycarbonylthiocrotonoyl)-β-chloropropionamide, m. 125°. Similarly were prepared [% yield and m.p. (decomposition) given]: N-(β-amino-α-ethoxycarbonylthiocrotonoyl)cinnamic acid amide, 77, 132°; N-(β-γ,γ-diethoxy-α-ethoxycarbonylthiocrotonoyl)benzamide, 67, -; and N-(β-amino-α-cyanothiocinnamoyl)benzamide, 49, 150°. ZMe (1 g.) in 10 ml. 2N NaOH was neutralized with 2N HCl. The solution was concentrated in vacuo and the residue was extracted with boiling

ligroine to give 59% 2-MeZ', m. 149° (Z' = 4-mercapto-6-methyl-5-acetylpyrimidine). ZEt (1 g.) was kept in 10 ml. Me₂CO for 5 days. The solution treated with petroleum ether gave 93% 2-EtZ', m. 154°. Similarly were prepared (% yield and m.p. given): 2-PrZ', 98, 152°; 2-tert-BuZ', 95, 156°; 2-PhCH₂Z', 97, 194°; 2-PhCH:CHZ', 93, 242° (decomposition); 2-m-MeC₆H₄Z', 97, 184°; 2-m-ClC₆H₄Z', 96, 217° (decomposition); 2-p-O₂NC₆H₄Z', 98, 187° (decomposition); 4-mercapto-6-methyl-5-acetyl-2-(2-furyl)pyrimidine, 100, 185° (decomposition); 4-mercapto-6-methyl-5-acetyl-2-(3-pyridyl)pyrimidine, 64, 233°; 2-MeZ₂; 92, 142° (Z₂ = 4-mercapto-6-methyl-5-ethoxycarbonyl-pyrimidine); 2-PhCH:CHZ', 92, 224°; and 4-mercapto-6-diethoxymethyl-2-phenyl-5-ethoxycarbonylpyrimidine, 84, 147°. C₄H₉CONCS (1.43 g.) in 15 ml. EtOAc was added dropwise with stirring to 0.99 g. I in 10 ml. absolute EtOAc. The mixture was refluxed for

10

hrs. and concentrated to give 74% 2-BuZ', m. 141°. Similarly were prepared: 2-Cl₁₁H₂₃Z', m. 95°, in 70% yield and 2-Cl₁₅-H₃₁Z', m. 97°, in 84% yield. ZC₆H₄OMe-p (1 g.) and 1 g. anhydrous ZnCl₂ in 50 ml. CH₂Cl₂ was shaken for 10 hrs. and evaporated in vacuo to give 82% 2-(p-C₆H₄OMe)Z', m. 194° (decomposition). Similarly were prepared 4-mercapto-6-methyl-5-acetyl-2-(2,3-dichloro-7-quinazolyl)pyrimidine, m. 240° (decomposition), in 84% yield, and 2-ClCH₂CH₂Z', m. 128°, in

78% yield. PhCH₂CH₂-CONCNS (1.87 g.) in 15 ml. absolute EtOAc was added dropwise to 0.99 g. I in 10 ml. absolute Et₂O with stirring. The solution was evaporated, the residue dissolved in 2N NaOH, filtered, and extracted 2 times with

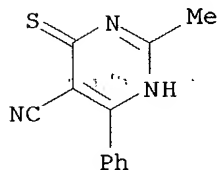
15 ml. EtOAc to give upon neutralization with concentrated HCl 78% 2-PhC.tplbond.CZ', m. 238° (AcOH-MeOH). Similarly were prepared: 1,4-bis(4-mercapto-6-methyl-5-acetyl-2-pyrimidinyl)benzene, m. 250-70° (decomposition), in 79% yield and 4-mercapto-6-phenyl-2-styryl-5-cyanopyrimidine, m. 300° (decomposition), in 69% yield. 2-C₁₁H₂₃Z' (1 g.) in 20 ml. 80% H₃PO₄ was treated with 0.7 g. NaNO₂ in 10 ml. H₂O under cooling to give 92% bis(6-methyl-2-undecyl-5-acetyl-4-pyrimidinyl) disulfide, m. 65° (MeOH). Similarly was prepared bis(6-phenyl-2-styryl-5-cyano-4-pyrimidinyl) disulfide, m. 253° (decomposition), in 98% yield. 2-MeZ' (1.82 g.) and 0.5 g. NaOH in 20 ml. H₂O was shaken 2 hrs. with 2 g. MeI to yield 86% 4-methylthio-2,6-dimethyl-5-acetylpyrimidine, m. 47° (dioxane). Similarly were prepared 4-methylthio-6-methyl-2-phenyl-5-acetylpyrimidine, m. 68° (Me₂CO), in 95% yield and 4-methylthio-6-methyl-2-phenyl-5-ethoxycarbonylpyrimidine, m. 51° (dioxane-H₂O), in 92% yield. 2-MeZ' (1.96 g.) and 3 g. N₂H₄.H₂O in 15 ml. EtOH was refluxed for 12 hrs. to give 92% 3,4,6-trimethylpyrazolo[3,4-d]pyrimidine (II) (R = R₁ = Me), m. 208°. Similarly prepared were 3,4-dimethyl-6-phenylpyrazolo[3,4-d]pyrimidine, m. 244°, in 94% yield and 3-hydroxy-4-methyl-6-phenylpyrazolo[3,4-d]pyrimidine, m. 297°, in 72% yield.

IT 13996-07-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 13996-07-1 CAPLUS

CN 5-Pyrimidinecarbonitrile, 1,4-dihydro-2-methyl-6-phenyl-4-thioxo- (8CI, 9CI) (CA INDEX NAME)



Similar to #6.

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(FILE 'HOME' ENTERED AT 19:05:28 ON 21 OCT 2004)

FILE 'REGISTRY' ENTERED AT 19:05:33 ON 21 OCT 2004

L1 STRUCTURE UPLOADED
L2 30 S L1 SSS SAM
L3 STRUCTURE UPLOADED
L4 2 S L3 SSS SAM
L5 85 S L3 SSS FUL

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L6 19 S L5

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

248.61

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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